

## AMENDMENTS TO THE CLAIMS

1. **(Currently Amended)** A photocatalyst comprising particles of ~~an artificial quartz crystal after treatment with hydrogen fluoride.~~ a hydrogen fluoride treated artificial quartz crystal.

2. **(Original)** The photocatalyst according to Claim 1 wherein the particles have a particle diameter of 3.0 mm or smaller.

3. **(Original)** The photocatalyst according to Claim 2 wherein the particles have a particle diameter of 2.0 mm or smaller.

4. **(Original)** A method for preparation of a photocatalyst which comprises a step of pulverizing an artificial quartz crystal into particles having a particle diameter of 3.0 mm or smaller and a step of activating the particles by immersing the same in a solution containing hydrogen fluoride.

5. **(Previously Presented)** A cleaning method for detoxification of an environmental pollutant which comprises a step of bringing a gas or liquid containing the environmental pollutant into contact, under irradiation of activating light, with the photocatalyst according to claim 1, in an oxidizing condition.

6. **(Original)** The cleaning method according to Claim 5 wherein the environmental pollutant is a nitrogen oxide and the contacting step is conducted in the presence of water.